

TECHNICAL DATA SHEET

BD Loop Shield “BD-LS” Self-Leveling Hybrid Sealant

Features

- Apply To Damp Concrete & Wet Substrates
- 100% Solids, Will Not Shrink
- Resistant to UV Degradation And Weathering
- Excellent, Broad Adhesion Range
- Excellent For Use on Concrete & Masonry Applications
- Self-Leveling Formulation Fill Cracks & Crevices

Additional Features

- Contains No Solvents or Isocyanates Which Makes BD-LS VOC Compliant
- Excellent Unprimed Adhesion To Various Substrates
- Paintable Within 24 Hours Of Application
- Excellent Joint Movement Capability
- Can Be Used For Coating, Potting & Encapsulating
- Low Odor, Eco-Friendly Formulation

Conforms, Meets & Exceeds

- ASTM C920, Type S, Grade P, Use T2, M & O
- TT-S-00230-C Type I, Class B
- Conforms to California Proposition 65
- VOC Compliant (16 grams/liter ASTM D2369)

Description

BD Loop Shield “BD-LS” Self-Leveling Hybrid Sealant is a one-part, moisture curing sealant formulated to self-level and fill horizontal joints and crevices. BD-LS can also be used as a coating or for potting and encapsulating applications. BD-LS will not shrink because it is 100% solids. BD-LS is safe to use in confined and occupied areas because of its eco-friendly chemistry and low odor. BD-LS offers excellent adhesion to clean substrates which allows it to be used without a primer in most circumstances. BD-LS can be applied to damp concrete or other damp substrates and it will not outgas or bubble as conventional urethanes would when coming into contact with water prior to curing. BD-LS shows excellent resistance to UV degradation and will not suntan. BD-LS has excellent movement capabilities and elongation to help it move & expand with the joint.

Physical Properties	Test Method	Result
Viscosity	ASI Test Method	40,000 cps (Spindle 7, 4rpm)
Skin Formation Time	ASI Test Method	45 minutes (70°F, 50% RH)
Density	ASTM D1475	12.5 lbs./gal
Hardness	ASTM C661	25 (Shore A)
Modulus 100%	ASTM D412	0.50 MPa
Tensile Strength	ASTM D412	1.33 MPa
Elongation at Break	ASTM D412	300%
Lap Shear	ASTM D412	N/A
Gun Grade	ASI Test Method	Self-Leveling (low viscosity)
QUV Testing	ASTM G26	Pass (4,000 hrs)
Service Temperature	ASI Test Method	-50°F to 220°F
Cure In Depth After 7 Days	ASI Test Method	11mm (70°F, 50% RH)

Strength will start to develop immediately and continue increasing for 7 days after application. BD Loops recommends testing strength and adhesion on the 7th day. BD-LS suggested application temperature range: 32°F to 150°F. BD-LS can be applied lower than 32°F. However, it will slow down curing. In general lower temperature & humidity will slow skin and cure times.

Information on this data sheet can change without notice and it is, therefore, not recommended that these figures be used in spec writing. If you have any questions, contact manufacturer’s sales and technical service department.



Common Applications:

BD Loop Shield "BD-LS" is an excellent sealant/adhesive for many Commercial, Industrial, and Construction applications.

Such applications include:

Sealing Inductance Loops
Expansion Joints
General Construction Applications
Industrial Manufacturing Applications
Coating Applications
Brick & Masonry
Weather Sealing Applications
Concrete Applications
Masonry Pavers

Can be used for additional applications not listed.
BD Loops recommends testing prior to use.

Directions

BD Loop Shield "BD-LS" is ready to use and requires no mixing or additives. Tooling, if necessary, should be done before skinning takes place. In applications where partial or total confinement of sealant is prevalent, the time required for proper cure is generally lengthened by the degree of confinement. Higher temperature and higher humidity will accelerate skin & cure time. Cold temperatures and low humidity will slow down skin & cure time.

Clean Up

Wet adhesive can be cleaned with alcohol. Dry sealant can be removed by abrading or scraping.

Colors

BD Loop Shield "BD-LS" is available in Gray or Black.

Packaging

BD Loop Shield "BD-LS" is packaged into 30 fl oz. caulking cartridges that are compatible with standard quart caulking guns.

Caution/Safety

Please refer to the SDS for the corresponding product for information regarding safety and handling.

Limitations

Do not store at elevated temperatures. Use only on clean, dry surfaces free of contaminants. Cold temperature and low humidity will slow curing (32°F (0°C) and below will be most significant). Do not use on olefins such as polyethylene, polypropylene or TPO prior to testing. Test all paints before application. Allow treated wood & asphalt to cure 6 months before application. Long-term submersion under water can cause loss of adhesion on some substrates.

Common Bonding Substrates:

BD Loop Shield "BD-LS" can be used on a variety of substrates. Please inquire or test your substrates before use. Substrates may vary with manufacturer. We have listed some common substrates:

Concrete
Asphalt
Stone (pavers)
Brick
Fiberglass
Glass
Aluminum & Galvanized Metal
Wood
EPDM
PVC & Other Plastics
Porous Surfaces (Concrete, Brick, Etc.)

Can be used on additional substrates not listed. BD Loops recommends testing prior to use.

Surface Preparation

All surfaces should be clean. Alcohol can be used to clean the surface. DO NOT USE petroleum based solvents. Priming for BD Loop Shield "BD-LS" is not normally required for applications to nonporous surfaces. Unprimed adhesion can be tested with a trial bead - allow 7 days for full cure and maximum adhesion to occur.

Testing

Test per application requirement. Allow 7 days for maximum strength to develop before testing adhesion or strength.

Storage

When stored at 70°F (21°C) and 50% RH, BD Loop Shield "BD-LS" has a shelf-life of 12 months. High temperature and high humidity can significantly reduce shelf-life.

Warranty Limitations

The information and data contained herein is believed to be accurate and reliable. However, it is the user's responsibility to determine suitability of use. Since the supplier cannot know all the uses, or the conditions of use to which these products may be exposed, no warranties concerning the fitness or suitability for a particular use or purpose are made. It is the user's responsibility to thoroughly test any proposed use of our products and independently conclude satisfactory performance in the application. Likewise, if the application, product specifications or manner in which our products are used requires government approval or clearance, it is the sole responsibility of the user to obtain such authorization. Because the storage, handling and application of the material is beyond BD Loops' control, we can accept no liability for the results obtained. BD Loops' sole limited warranty is that the product meets the manufacturing specifications in effect at time of shipment. There is no warranty of merchantability or fitness for use, nor any other express or implied warranty. BD Loops will not be liable for incidental or consequential damages of any kind. The exclusive remedy for breach of such limited warranty is a refund of purchase price or replacement of any product shown to be other than as warranted. Suggestions of uses should not be taken as inducements to infringe upon any patents.